

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Uwe Marx et al.

Serial No: 10/622,502

Filing Date: July 18, 2003

Title: Method and device for cultivating at high densities and for obtaining
of products from these cells

Examiner:

Law Office:

January 6, 2004

Attorney's docket No.: Weh212T1

TRANSMITTAL LETTER

Hon. Commissioner of Patents and Trademarks
Washington, D.C. 20231

SIR:

Transmitted herewith for filing is:

- <X> Submission to Information Disclosure Statement under 37 CFR § 1.97.
- <X> Copy of German Office Action of January 20, 2003
- <X> Copies of the following references: -US 3,821,087, US 4,804,628, -US 4,857,464
-DE 34 09 501, DE 24 31 450, DE 42 30 194, DE 195 20 188,
Knazek R.A."Solid tissue masses formed in vitro formed cells cultured on artificial
capillaries" Federation Proc. 33 (8): pp. 1978-1981 (1974);
-Piret J. M., Cooney C.L. "Immobilized mammalian cell cultivation in hollow fiber bio-
reactors" Biotechnol. Adv. 8: 763-783 (1990);
-Lipman N.S., Jackson L.R. "Hollow fibre bioreactors: an alternative to murine ascites
for small scale (<1 gram) monoclonal antibody production" Res Immunol July-August;
149(6): 571-6 (1998);
-Flores H.E., Hoy M.W., Pickard J.J. "Secondary metabolites from root cultures"
Tibtech. 5:64-69 (1987);
-Liu C.Z., Wang Y.C., Zhao B., Guo C., Ouyang F., Ye H.C., Li G.F. "Development of a
nutrient mist bioreactor for growth of hairy roots" In Vitro Cell Dev Biol- Plant May-
June; 35:271-74 (1999);
-Wyslouzil B.E., Whipple M., Chatterjee C., Walcerz D.B. Wheathers P.J., Hart D.P.
"Mist deposition onto hairy root cultures: aerosol modeling and experiments" Biotechnol
Prog. March-April; 13(2): 185-94 (1997);
-Friberg J.A., Weathers P.J., Gibson D.G. "Culture of amebocytes in a nutrient mist
bioreactor" In Vitro Cell Dev Biol. March: 28A(3 Pt 1): 215-7 (1992).
-US 4,225,671, -US 4,857,464, -US 5,416,022, -DE 34 09 501, -DE 41 16 727,
-DE 295 20 294, -EP 0 359 900, -WO 89/11529, -WO 01/04262

(X) The applicant hereby petitions the Commissioner of Patents and Trademarks to extend the time for response to any Office Action outstanding in the above captioned matter as necessary to avoid abandonment of the application. Please charge my deposit account No.11-0224 in the amount required to cover the cost of the extension. Any deficiency or overpayment should be charged or credited to the above account.

(X) The Commissioner is hereby authorized to charge any fees under 37 CFR 1.16, and 1.17, after a mailing of a Notice of Allowance under 37 CFR 1.18 or any additional fees which may be required during the entire pendency of the application, or credit any overpayment, to Acct. No.11-0224. A duplicate copy of this sheet is enclosed. If and only if account funds should be insufficient, immediately contact our associate, Lisa Zumwalt, at (703)415-0579, who will pay immediately to avoid deprivation of rights.

() Please charge my Deposit Account No.11-0224 in the amount of \$ A duplicate copy of this sheet is enclosed. A signature or signatures required for the above recited document(s) is (are) provided herebelow. Such signature(s) also provide(s) ratification for any required signature appearing to be defective in the above recited document(s).

Robert J. Ferb, 13 Forest Drive, Warren, N.J.07059
Reg. No. 29,536; Tel.(908)526-1717

CERTIFICATE OF MAILING:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Hon. Commissioner for Patents and Trademarks, Washington, D.C. 20231, on

07 JAN 2004

Signature:

Myrlou M. King

Date:

Jan 7, 2004

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